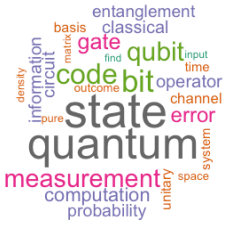

Contribution ID: **11** Type: **not specified**

Simulating Quantum Field Theories on Quantum Computers

Thursday, December 7, 2017 11:15 AM (1 hour)

In some regimes, such as strong coupling, quantum field theory dynamics are difficult to simulate using conventional techniques. In this talk I will describe my joint work with John Preskill and Keith Lee developing quantum algorithms for simulating quantum field theories. I will also comment on potential applications of near-term “pre-threshold” quantum computers to quantum field theory problems.

Presenter: Dr JORDAN, Stephen (NIST / University of Maryland)